

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number
WO 2005/044976 A2

(51) International Patent Classification⁷: C12N
(21) International Application Number: PCT/US2004/019458
(22) International Filing Date: 18 June 2004 (18.06.2004)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
60/480,048 20 June 2003 (20.06.2003) US

(71) Applicant (for all designated States except US): ISIS
PHARMACEUTICALS, INC. [US/US]; 2292 Faraday
Avenue, Carlsbad, CA 92008 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): BAKER, Brenda,
F. [US/US]; 2147 Avenida Toronja, Carlsbad, CA 92009
(US).

(74) Agent: LEGAARD, Paul, K.; Cozen O'Connor, 1900
Market Street, Philadelphia, PA 19103 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: OLIGOMERIC COMPOUNDS FOR USE IN GENE MODULATION

(57) Abstract: The present invention provides modified oligomeric compounds and compositions of oligomeric compounds for use in the RNA interference pathway of gene modulation. The modified oligomeric compounds include siRNA and asRNA having at least one affinity modification. The present invention also provides methods for modulating gene expression using the modified oligomeric compounds and compositions of oligomeric compounds.

WO 2005/044976 A2